

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Claim 1. (Currently Amended) A method of purifying radiolabelled compounds, comprising:
- a) loading onto a fluororous silica polymer a radiolabelled compound precursor comprising a fluoroalkyl tin moiety;
 - b) reacting the radiolabelled compound precursor with a radiolabel delivering compound to give a radiolabelled compound, wherein the fluoroalkyl tin moiety is replaced by a radiolabel; and
 - c) eluting the radiolabelled compound from the fluororous polymer.
- Claim 2. (Original) The method of claim 1, wherein the radiolabelled compound comprises an aryl moiety.
- Claim 3. (Original) The method of claim 1, wherein the radiolabelled compound comprises an aryl acid.
- Claim 4. (Original) The method of claim 1, wherein the radiolabelled compound is a benzoic acid.
- Claim 5. (Original) The method of claim 1, wherein the radiolabelled compound is a benzamide.
- Claim 6. (Original) The method of claim 5, wherein the benzamide is an *N*-(2-diethylaminoethyl)benzamide.
- Claim 7. (Original) The method of claim 1, wherein the radiolabelled compound is a

benzylamine.

Claim 8. (Original) The method of claim 1, wherein the radiolabelled compound is a benzylguanidine.

Claim 9. (Original) The method of claim 1, wherein the radiolabelled compound is a benzylamine-GFLM(f).

Claim 10. (Original) The method of claim 1, wherein the fluoroalkyl tin moiety is tris(perfluorohexylethyl)tin.

Claim 11 (Cancelled).

Claim 12. (Original) The method of claim 1, wherein the radiolabel is selected from the group consisting of ^{99m}Tc , ^{94m}Tc , ^{186}Re , ^{105}Rh , ^{18}F , ^{11}C , ^{125}I , ^{123}I , ^{131}I , ^{76}Br , and ^{111}At .

Claim 13. (Currently Amended) The method of claim [[13]] 1, wherein the radiolabel is selected from the group consisting of ^{18}F , ^{125}I , ^{123}I , and ^{131}I .

Claim 14. (Original) The method of claim 1, wherein the radiolabelled compound is a benzoic acid, the fluoroalkyl tin moiety is tris(perfluorohexylethyl)tin, the fluororous polymer is fluororous silica, and the radiolabel is ^{18}F .

Claim 15. (Original) The method of claim 1, wherein the radiolabelled compound is a benzoic acid, the fluoroalkyl tin moiety is tris(perfluorohexylethyl)tin, the fluororous polymer is fluororous silica, and the radiolabel is ^{125}I .

Claim 16. (Original) The method of claim 1, wherein the radiolabelled compound is an *N*-

(2-diethylaminoethyl)benzamide, the fluoroalkyl tin moiety is a tris(perfluorohexylethyl)tin, the fluorous polymer is fluorosilica, and the radiolabel is ^{123}I .

Claim 17. (Original) The method of claim 1, wherein the radiolabelled compound is benzylamine, the fluoroalkyl tin moiety is tris(perfluorohexylethyl)tin, the fluorous polymer is fluorosilica, and the radiolabel is selected from the group consisting of ^{123}I and ^{131}I .

Claim 18. (Original) The method of claim 1, wherein the radiolabelled compound is a benzylguanidine, the fluoroalkyl tin moiety is tris(perfluorohexylethyl)tin, the fluorous polymer is fluorosilica, and the radiolabel is selected from the group consisting of ^{123}I and ^{131}I .

Claim 19. (Original) The method of claim 1, wherein the radiolabelled compound is a benzylamine-GFLM(f), the fluoroalkyl tin moiety is tris(perfluorohexylethyl)tin, the fluorous polymer is fluorosilica, and the radiolabel is selected from the group consisting of ^{123}I and ^{131}I .